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## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Dany Sylvain

Examiner: Ferguson, Keith

Serial No. 10/626,677

Art Unit: 2683

Filed: 7/24/2003

For: **INTEGRATED WIRELINE AND WIRELESS SERVICE USING A COMMON  
DIRECTORY NUMBER**

Mail Stop Amendment

Commissioner for Patents

PO Box 1450

Alexandria, VA 22313-1450

Sir:

**DECLARATION UNDER 37 C.F.R. § 1.131 OF DANY SYLVAIN**

1. My name is Dany Sylvain and I am an employee of Nortel Networks, Inc. (hereinafter "Nortel"), a wholly owned subsidiary of the assignee of the present application. I have been employed by Nortel since 1981. As an employee of Nortel, I am obligated to assign any rights to inventions to the present assignee.
2. I am the inventor of Patent Application Serial No. 10/626,677 entitled "INTEGRATED WIRELINE AND WIRELESS SERVICE USING A COMMON DIRECTORY NUMBER" (hereinafter "Patent Application").
3. I have reviewed the Provisional Patent Application Serial No. 60/472,291, as well as, claims 1-37 presently pending in the Patent Application (hereinafter "Present Invention").
4. At least as early as April 14, 2003, I conceived of the Present Invention as evidenced by the Invention Disclosure entitled "Wireless Roaming for Wireline Users", which is attached to this Declaration as Appendix A.
5. On April 14, 2003, I completed the Invention Disclosure and submitted it to the Intellectual Property Law Department at Nortel.
6. On or about May 1, 2003, I received a copy of a memo that instructed Benjamin S. Withrow of the law firm of Withrow & Terranova, PLLC to prepare and file a patent application for the Invention Disclosure.

7. Starting on or about May 1, 2003 and continuing through June 2, 2003, I met with the attorney Benjamin S. Withrow and worked with him to prepare the Patent Application claiming the invention disclosed in the Invention Disclosure.

8. On May 21, 2003, a provisional application was filed at the U.S. Patent and Trademark Office and was assigned Provisional Patent Application Serial No. 60/472,291. This Provisional Patent Application disclosed the concept of the Present Invention as I conceived it at the time of the Invention Disclosure submitted April 14, 2003, and as it is claimed in the Present Invention.

9. On June 2, 2003, I received a first draft of the Patent Application (hereinafter "First Draft") from Benjamin S. Withrow's assistant, Jennifer Alkove, as evidenced by the e-mail attached to this Declaration as Appendix B.

10. On or about June 16, 2003, I sent very minor comments to Benjamin S. Withrow regarding the First Draft.

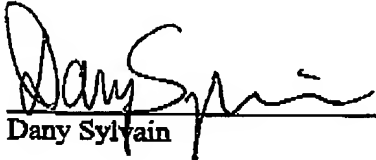
11. On or about June 20, 2003, I received a copy of the revised Patent Application and the inventor declaration and assignment document from Benjamin S. Withrow's assistant, Jennifer Alkove.

12. On or about July 2, 2003, I returned the signed inventor declaration and assignment document to the attorney, Benjamin S. Withrow.

13. Upon information and belief, the Patent Application was filed at the U.S. Patent and Trademark Office on July 24, 2003.

14. I hereby declare that all declarations made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are

punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

  
Dany Sylvain

6/6/06  
Date

## Appendix A

Norte Networks Confidential &amp; Privileged Information

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## Invention Disclosure Submission Reply

Disc No:		Received Date:	14 apr 2003
Disclosure Title:	Wireless roaming for wireline users		

## Inventors

Global ID	Name	Work Info	Home Info
	HR Name: SYLVAIN, DANY Known As: DANY	Location: 3500 CARLING AVENUE NEPEAN ONTARIO K2H 8E9 CANADA  Citizenship: CANADA	

## Attachments

File Name	File Type	File Comments
Roaming_wireline_networks.ppt	Microsoft Powerpoint (*.ppt)	

&lt;End of Attachments&gt;

Were there additional inventors involved?	no	Was there contractor involvement?	no
Name of Supervisor or Divisional Head:		Name of VP:	
STEVE ELLIOTT		SUE SPRADLEY	
LOB:	WIRELINE NETWORKS	Business Unit:	SPRINT PROJECT LEADER
Conception Date:			
Has this invention been discussed with others? If so, please complete:			
Inside Nortel - Whom?		Outside Nortel - Whom?	
Inside Nortel - When?		Outside Nortel - When?	
NDA:	no		
Are you aware of any imminent future disclosures? Please provide dates and details:			

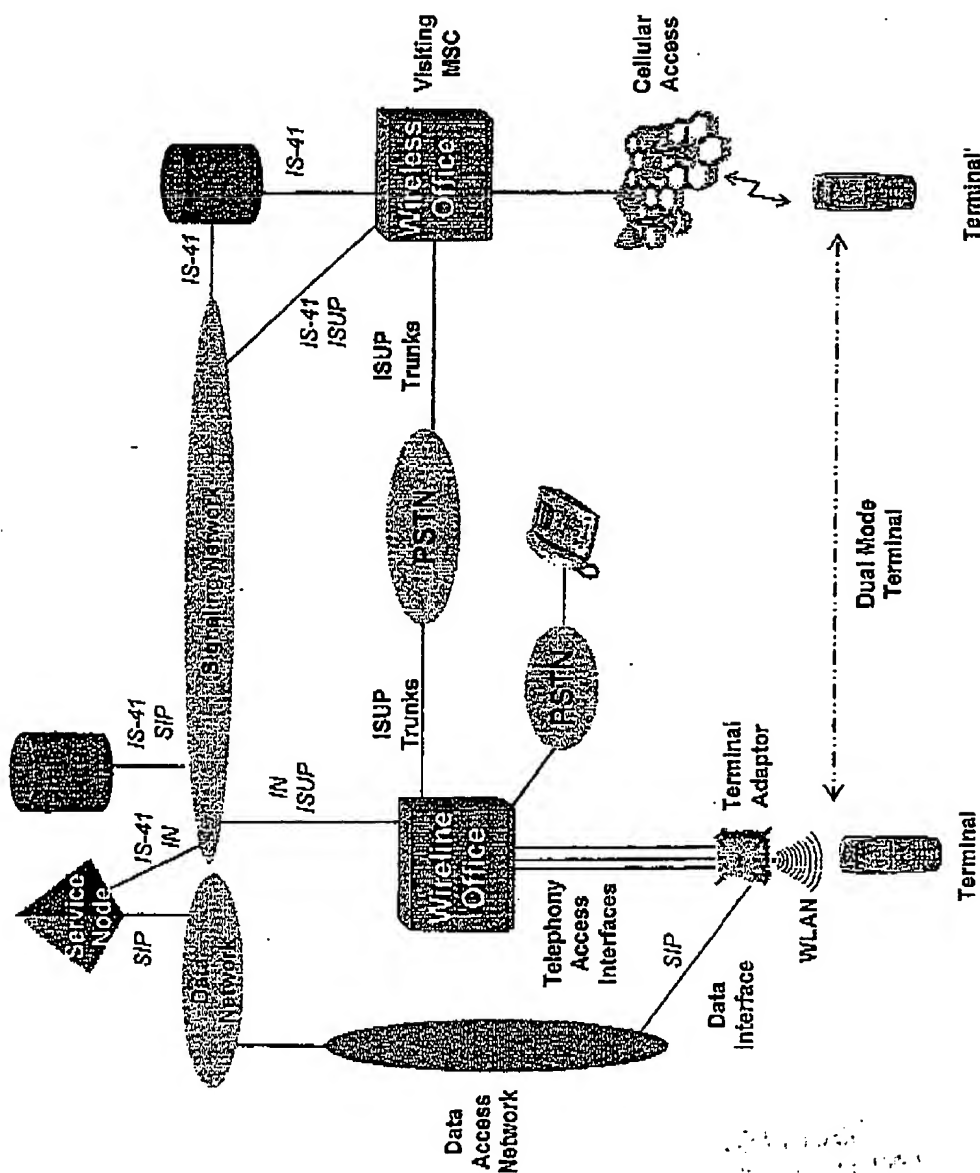
# Norte.      tworks Confidential & Privileged In.      nation

<b>Keywords for Searching:</b>		<b>Products that will use this invention:</b>	
Wireless, roaming, mobility, WLAN, 802.11, registration			
<b>Does this invention arise from a pre-arrangement involving an external organization?</b>			
<b>Is this invention relevant to a Standard Activity?</b>		<b>Internal Funding Projects</b>	
no			

Technical Information	
<b>Brief Description of the Invention:</b>	
<p>WLAN allows Wireline operators to offer some form of mobility to their subscribers. If the users use dual mode handsets (WLAN + cellular), users can switch from one network to the other with the same terminal as was described in      However they still required two phone numbers, one for the wireline/WLAN network and one for the wireless network. This invention addresses this last problem and allows wireline phone numbers to be used as the only permanent number. This is done by adding a service node (IMS) and a "wireline HLR", allowing the existing wireline switches (with subtending WLAN based users) to become a peer to other wireless networks.</p>	
<b>Problem Solved by the Invention:</b>	
<p>In addition to eliminate the need for a wireless number, it also remove the need for the users to have a subscription with the wireless operator. The wireline operator only needs a roaming arrangement with the appropriate wireless operator. This removes a significant commercial/business roadblock to service deployment.</p>	
<b>Solutions that have been tried and why they didn't work:</b>	
<p>Dual numbers as described before.</p>	
<b>Specific elements or steps that solved the problem and how they do it:</b>	
<p>See charts.</p>	
<b>Commercial value of the invention to Nortel and Nortel's major competitors:</b>	
<p>Allows wireline operators to retain customers by providing cost effectively a "all-you-can-eat" mobile service for users in their WLAN home zone and full mobility (at normal wireless usage costs) everywhere else.</p>	

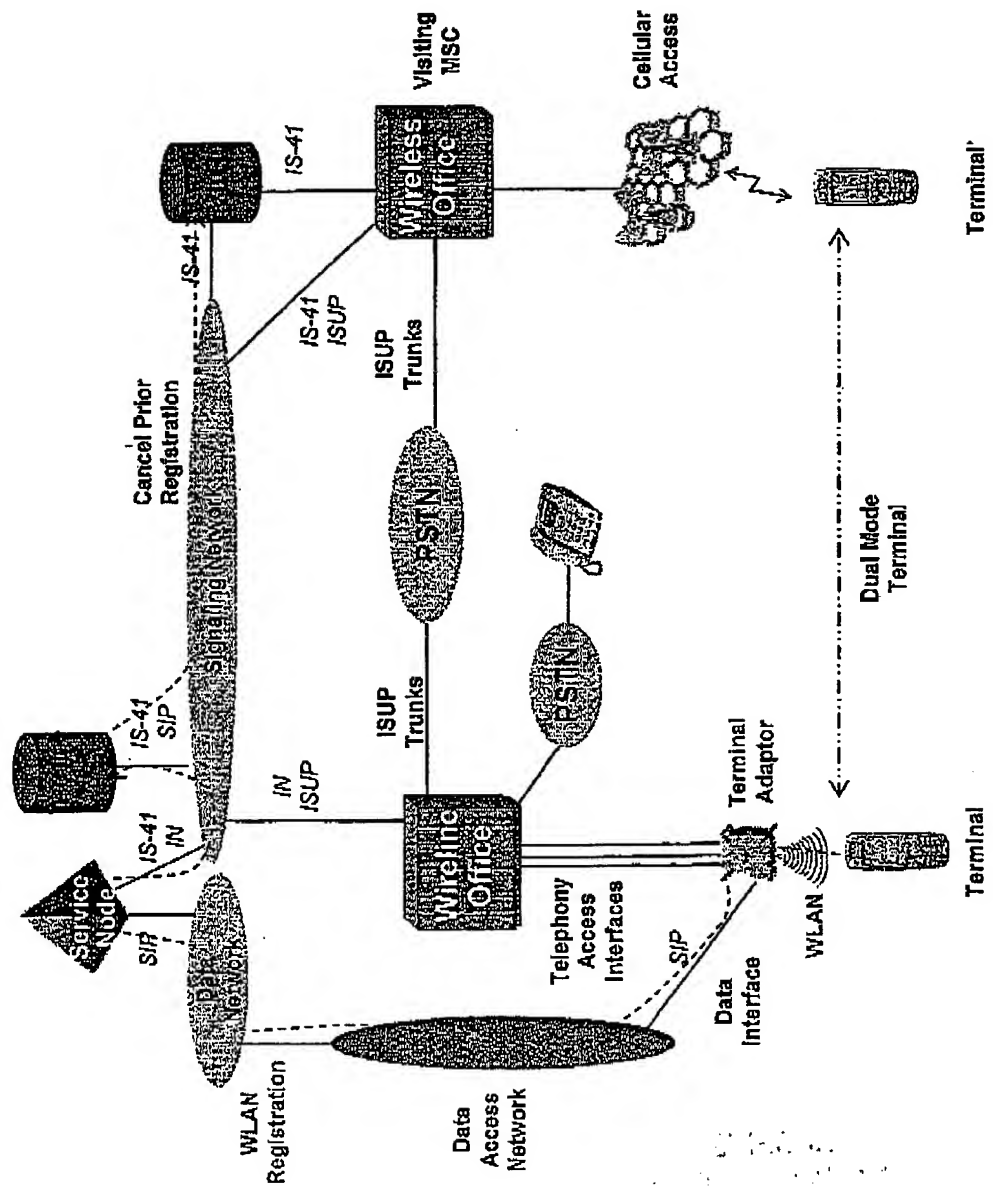
# Wireless roaming for Wireline users

# Network

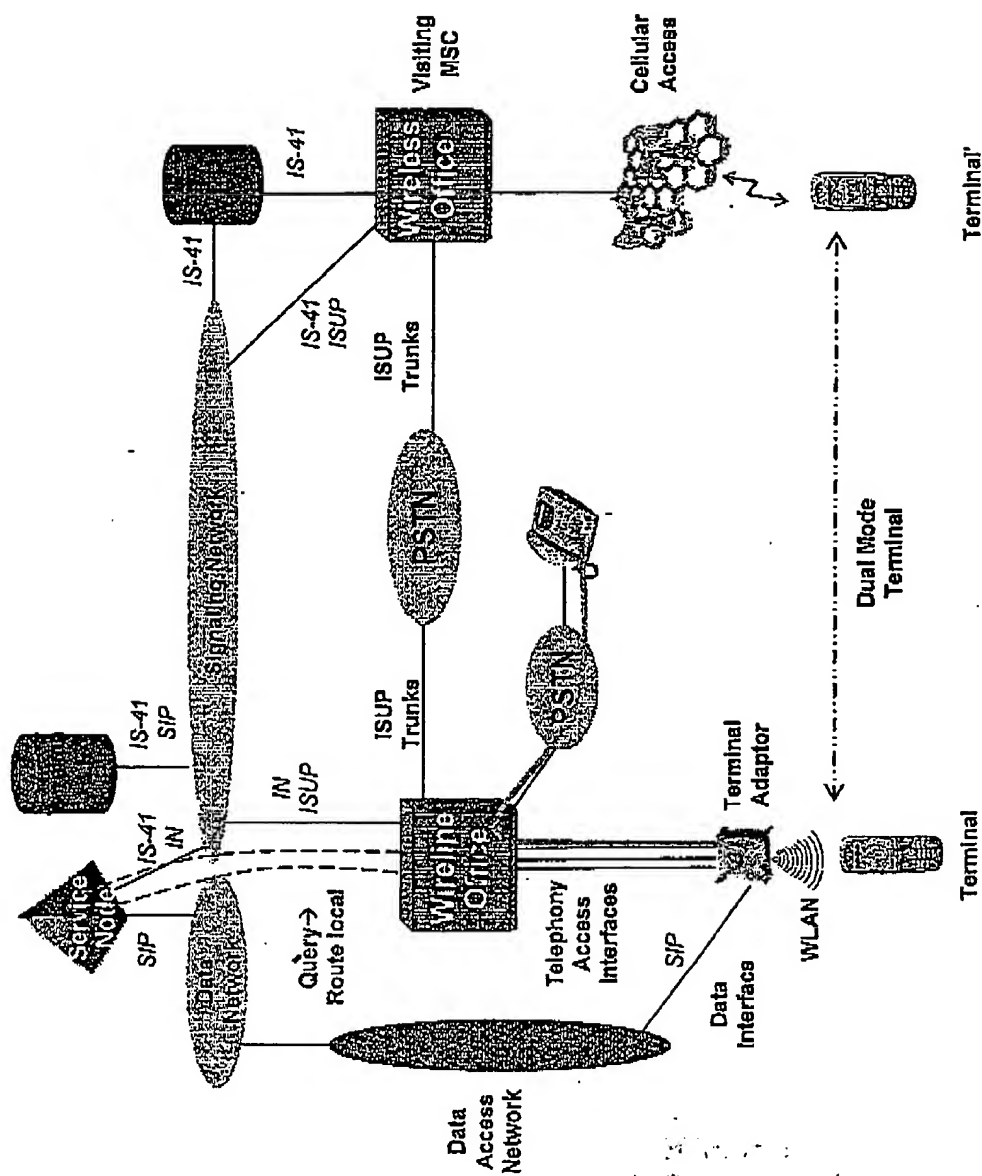




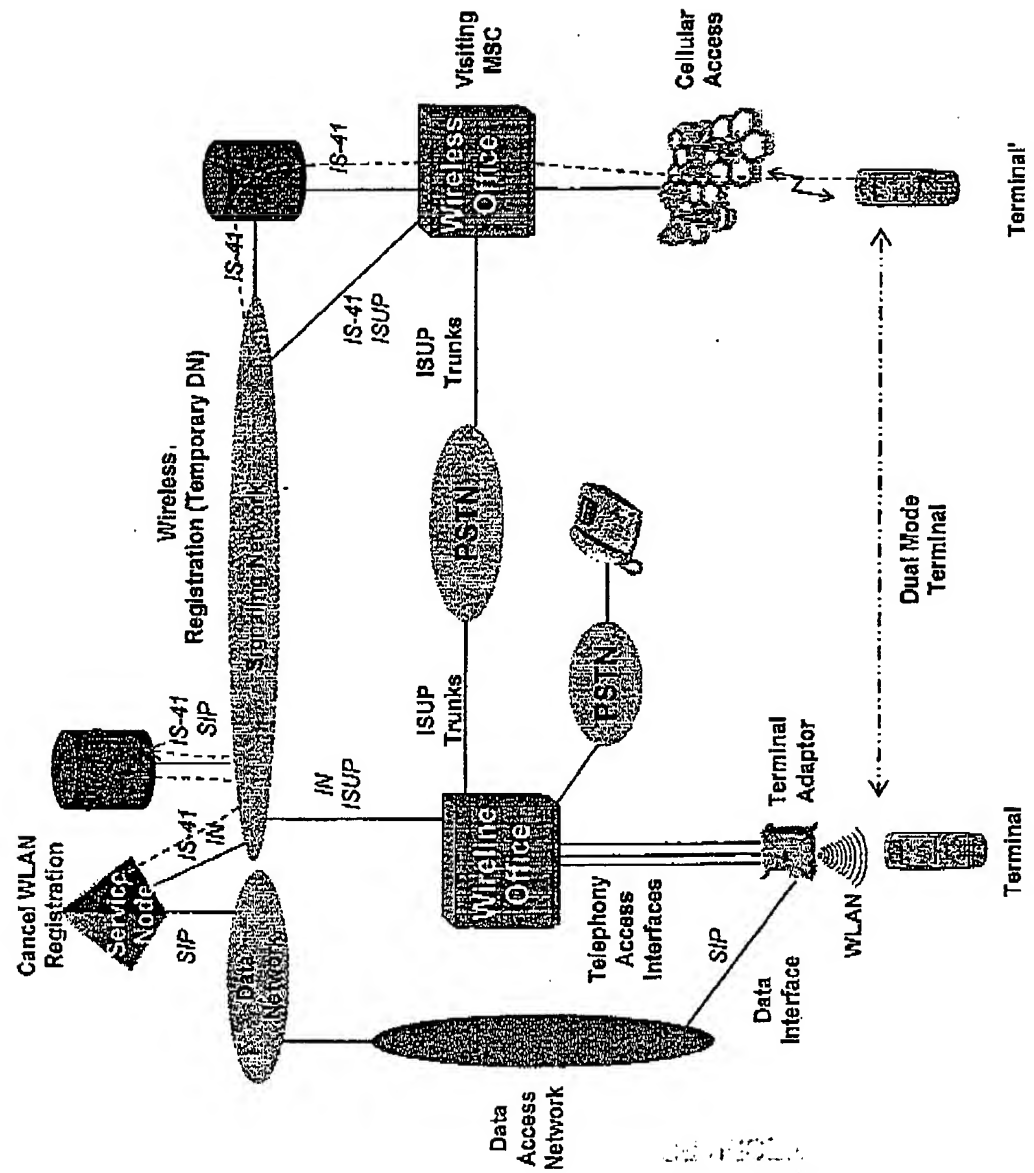
# WLAN Registration



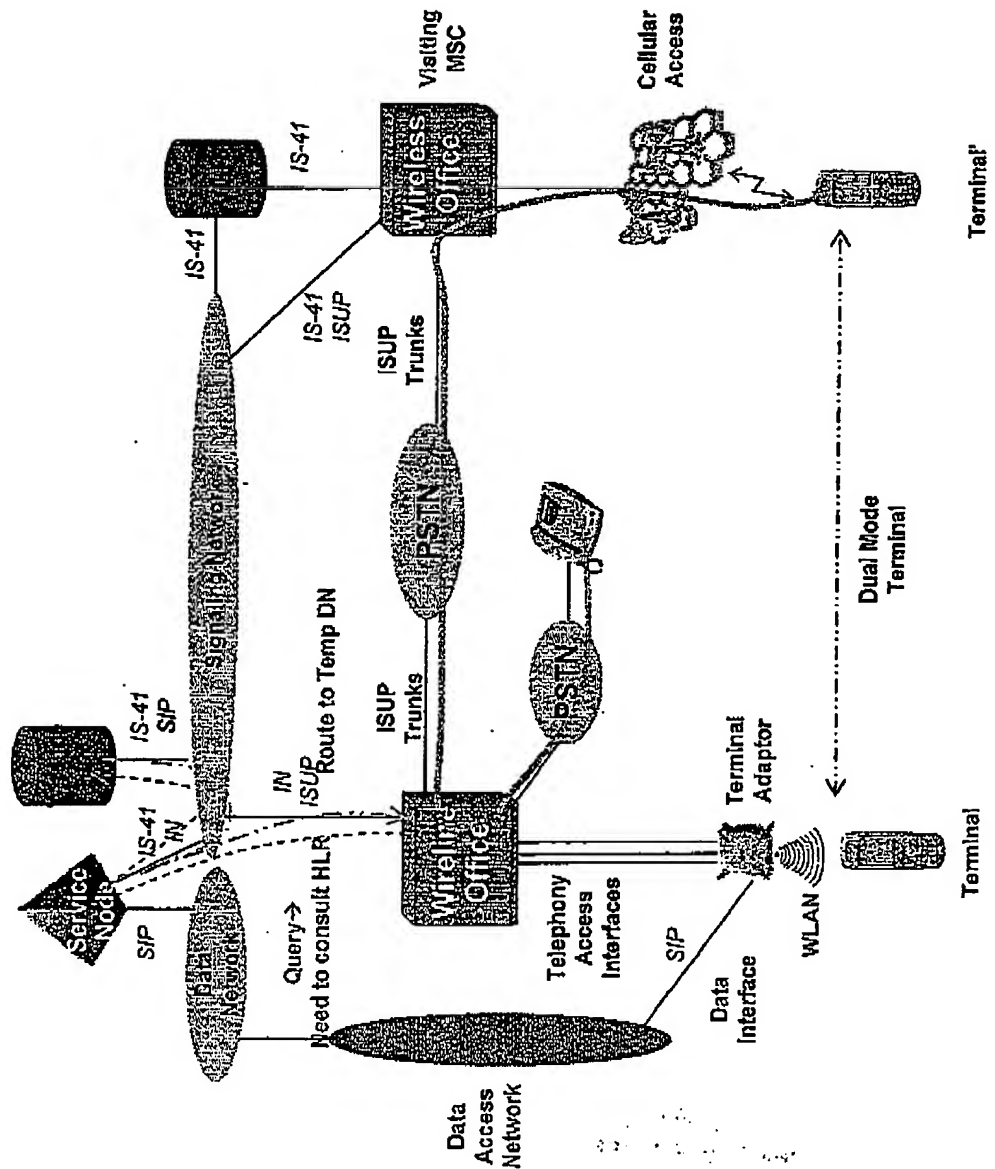
# WLAN routing



# Wireless Registration



# Wireless routing



## Appendix B

**Jennifer Alkove**

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**From:** Jennifer Rush Alkove  
**Sent:** Monday, June 02, 2003 1:28 PM  
**To:**  
**Cc:** Bsw (E-mail)  
**Subject:** First Draft of (our file 7000-268)

Dear Dany:

Please find attached a first draft of the above-referenced patent application. The .zip file is protected with the password that we have used in previous applications. If you have any problems opening the attached file, please let me know. Please review the application and drawings carefully for accuracy and completeness, making any changes, additions, or corrections, if any, directly on the application (or electronically with changes tracked).

Please recall that the application must clearly explain the best mode of practicing the invention for which protection is desired. Also, the application must explain to an individual of ordinary skill in the art how to make and use the invention. After reviewing the application, please forward any comments to Ben Withrow and me. We will then send you a revised draft of the application, along with formal paperwork prepared for your signature. After receipt of the signed paperwork and approval from Nortel's legal department, we will file the application.

Please do not hesitate to contact Ben Withrow or me should you have any questions regarding the application. Thank you for allowing us to be of service to you and for your prompt attention to this matter.

Best regards,

Jennifer Rush Alkove  
Withrow & Terranova, P.L.L.C.  
201 Shannon Oaks Circle, Suite 200  
Cary, NC 27511  
Ph: (919) 654-4520  
Fax: (919) 654-4521

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First Draft.zip (...)

## Appendix C

Nortel Case Status																		
Updated																		
Matter ID	Atty	Status	Date of Letter & Fax Confirm	Met with Inventor	First draft due	First draft sent	First draft received back	Final draft due (IP Law)	Final draft sent (IP Law)	Final draft comments received back (IP Law)	Deadline to send formal paperwork	Formal paperwork sent	Formal paperwork received back	Nortel requested filing date	Actual filing date (Prov.)	IDS Grouping	Extra IDS role from	
7000-268	EE	12/1/05 Response	5/6/2003		5/20/2003	6/2/2003	6/18/2003	6/20/2003	6/20/2003	7/2/2003	5/28/2003	6/20/2003	7/2/2003	9/1/2003	5/29/2003			



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